

B1
Cont'd.

supplied to a controller 5. The controller 5 controls an actuator 6 for each vehicle wheel. the actuator 6 actuates a clamping device 7 which, for braking the respective vehicle wheel after overcoming free play, presses two friction elements together.

IN THE DRAWINGS:

With the consent of the Primary Examiner, it is requested that the drawing corrections indicated in red in the attached copies of Figures 1 to 3 be entered.

IN THE CLAIMS:

- B2
1. (Amended) A method for controlling a brake system of a vehicle wherein
braking effect on the vehicle wheels is a function of brake pedal force exerted by the
operator, said braking effect being enhanced by an adjustable braking force booster,
comprising:
detecting dynamic conditions of said vehicle;
analyzing said dynamic conditions to detect a condition of vehicle
instability; and
increasing the force boosting effect of said braking force booster when
said analysis indicates condition of vehicle instability.

- T53
8. (Twice Amended) A method for controlling a braking system of a vehicle
having at least one clamping device for braking a vehicle, and an actuator for moving
said at least one clamping device into clamping engagement, comprising:

B3 cont

B4 cont

d1 cont

detecting dynamic conditions of said vehicle;
analyzing said dynamic conditions to detect a condition of vehicle
instability and
in response to detection of a condition of vehicle instability operating said
actuator to overcome free play of said at least one clamping device.

B4

10. (Amended) A method as specified in claim 8 wherein said monitoring comprises monitoring the operator's use of an accelerator.

B5

12. (Twice Amended) A braking system for a vehicle comprising:
a brake pedal for operation by a vehicle operator for applying braking force;
a braking force booster for increasing said braking force, said booster providing a first normal braking force as a function of force applied to said brake pedal and being responsive to a supplied control signal to change said normal braking force as a function of force applied to said brake pedal; and
a processor responsive to supplied signals representing dynamic conditions of said vehicle, said processor being programmed to analyze said dynamic conditions and provides said control signal to said booster to cause said booster to change braking force when said dynamic conditions indicate a condition of vehicle instability.

*d1
cont*

B6

20. (Amended) A braking system for a vehicle comprising:

a brake pedal for operation by a vehicle operator for applying braking force;

at least one clamping device, responsive to an actuator, for applying said braking force to said vehicle;

an actuator, responsive to said braking force and a control signal for operating said at least one clamping device, wherein said control signal operates said actuator to overcome free play of said clamping device; and

a processor responsive to supplied signals representing dynamic conditions of said vehicle, said processor being programmed to analyze said dynamic conditions and provide said control signal to said actuator when said dynamic conditions indicate a condition of vehicle instability.